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PATENT
Attorney Docket No.: 018564-007810US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On March 3, 2004



TOWNSEND and TOWNSEND and CREW LLP

By: Marta Vanegas

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Steinthal, Gregory et al.

Application No.: 10/624,194

Filed: July 21, 2003

For: NON-SPECIFIC SENSOR ARRAY
DETECTORS

Examiner: not yet assigned

Art Unit: 2632

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of reference Nos. 25 through 48 are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

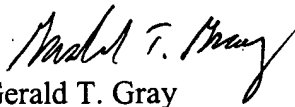
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

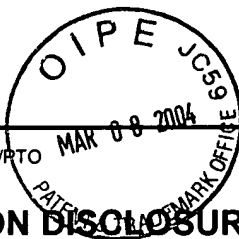
Applicant believes that no fee is required for submission of this statement.

However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,


Gerald T. Gray
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60136940 v1



PTO/SB/08A (08-03)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/624,194		
		Filing Date	July 21, 2003		
		First Named Inventor	Steinthal, Gregory		
		Art Unit	2632		
		Examiner Name	not yet assigned		
Sheet	1	of		Attorney Docket Number	018564-007810US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	1	US-60/477,624	n/a	Sunshine	Atty.Docket No.: 018564-007500US
	2	US-4,453,126 A	06-1984	Volgyesi	
	3	US-4,644,101 A	02-1987	Jin et al.	
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	18	US-6,085,576	07-11-2000	Sunshine et al.	Atty.Docket No.: 018564-003230US
	19	US-6,192,351 B1	05-20-2001	Persaud	
	20	US-6,236,951 B1	05-22-2001	Payne et al.	
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	24	US-2003-0186461-A1	10-02-2003	Boehr et al.	Atty.Docket No.: 018564-007600US

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	25 ✓	WO	00/79243	A1	12-28-2000	Cyrano Sciences, Inc.		<input type="checkbox"/>
	26 ✓	WO	97/14958	A1	04-24-1997	Aromascan PLC		<input type="checkbox"/>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **2**

of

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Attorney Docket Number	018564-007810US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published:	T ²
	27	"BAE Systems - JCAD Chemsentry@ Point Chemical Vapor Detector"; published on the Internet: http://www.airforce-technology.com/contractors/nbc/bae2/ ; ✓	
	28	"Joint Services Lightweight Standoff Chemical Agent Detector (JSLSCAD)"; published on the Internet: http://www.globalsecurity.org/military/systems/ground/jslscad.htm ; (Last modif. Jan. 31, 2003) ✓	
	29	AVNIR, D. et al.: "Enzymes and other proteins entrapped in sol-gel materials" <u>Chem. Mater.</u> ; Vol. 6, pp. 1605-1614 (1994) ✓	
	30	CHEN, Q. et al.: "Stability of oxidases immobilized in silica gels" <u>J. Am. Chem. Soc.</u> ; Vol. 120, pp. 4582-4585 (1998) ✓	
	31	DAVE, B.C. et al.: "Photochemical studies using organic-inorganic sol-gel materials" <u>Mat. Res. Soc. Symp. Proc.</u> ; Vol. 435, pp. 565-574 (1996) ✓	
	32	DIAS, M. B.: "Investigating the viability of MEMS vapor sensors for detecting land mines" <u>CMU-RI-TR-00-24</u> ; The Robotics Institute, Carnegie Mellon University, Pittsburgh, PA; October 2000 ✓	
	33	DUTTA, R. et al.: "Bacteria classification using Cyranose 320 electronic nose" <u>Biomed. Engin. OnLine</u> ; Vol. 1, No. 4; published on the Internet: http://www.biomedical-engineering-online.com/content/1/1/4/ ; (Oct. 16, 2002) ✓	
	34	JEREMIC, A. and A. NEHORAI: "Landmine detection and localization using chemical sensor array processing" <u>IEEE Trans. Signal Proc.</u> ; Vol. 48, No. 5; May 2000 ✓	
	35	KELLER, et al.: "Electronic noses and their applications" <u>IEEE Northcon/Techn. Appln. Conf.</u> ; Portland OR; October 12, 1995 ✓	
	36	KELLER, P. E. et al.: "Three neutral network based sensor systems for environmental monitoring" <u>IEEE Electro@94 Int'l Conf.</u> , Boston, MA; Paper No. PNL-SA-24175 (May 10-12, 1994) ✓	
	37	LACEY, R. E. and G. S. OSBORN: "Application of electronic noses in measuring biological systems" <u>ASAE Meeting Presentation at the 1998 ASAE Annual Int'l Meeting</u> , Orlando, FL; Paper No. 98/6116 (July 12-15, 1998) ✓	
	38	LAN, E.H. et al.: "HEME proteins encapsulated in sol-gel derived silica glasses and their reactions with ligands" <u>Mat. Res. Soc. Symp. Proc.</u> ; Vol. 330, pp. 289-294 (1994) ✓	
	39	LI, Y.: "The Cyranose Chemical Vapor Analyzer"; published on the Internet: http://www.sensorsmag.com/articles/0800/56/main.shtml ; (Aug. 2000) ✓	
	40	LIVAGE, J. et al.: "Immunoassays in sol-gel matrices" <u>J. Sol-Gel Sci. Technol.</u> ; Vol. 7, pp. 45-51 (1996) ✓	
	41	MILLER, J.M. et al.: "Synthesis conditions for encapsulating cytochrome c and catalase in SiO ₂ sol-gel materials" <u>J. Non-Crystalline Solids</u> , Vol. 202, pp. 279-289 (1996) ✓	
	42	OULLETTE, J.: "Electronic noses sniff out new markets" <u>The Industrial Physicist</u> ; February 1999; pp. 26-29 (1999) ✓	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

3

of

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	43	POPE, E.J.A. et al.: "Bioartificial organs I: Silica gel encapsulated pancreatic islets for the treatment of diabetes mellitus" <u>J. Sol-Gel Sci. Technol.</u> ; Vol. 8, pp. 635-639 (1997)	
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	46	YAMANAKA, S.A. et al.: "Enzymatic activity of glucose oxidase encapsulated in transparent glass by the sol-gel method" <u>Chem. Mater.</u> ; Vol. 4, No. 3; pp. 495-497 (1992)	
	47	YAMANAKA, S.A. et al.: "Nicotinamide adenine dinucleotide phosphate fluorescence and absorption monitoring of enzymatic activity in silicate sol-gels for chemical sensing applications" <u>J. Am. Chem. Soc.</u> ; Vol. 117, pp. 9095-9096 (1995)	
	48	YAMANAKA, S.A. et al.: "Enzymatic activity of oxalate oxidase and kinetic measurements by optical methods in transparent sol-gel monoliths" <u>J. Sol-Gel Sci. Technol.</u> ; Vol. 7, pp. 117-121 (1996)	

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